

Title (en)

Process for producing high octane gasoline.

Title (de)

Verfahren zur Herstellung von hochoktanigem Benzin.

Title (fr)

Procédé de production d'essence à haut indice d'octane.

Publication

**EP 0261769 A1 19880330 (EN)**

Application

**EP 87306255 A 19870715**

Priority

US 89275686 A 19860731

Abstract (en)

A process for producing a high octane gasoline from a hydrocarbon feedstock in which the feedstock is contacted in the presence of hydrogen under hydrocracking conditions, preferably ammonia-rich hydrocracking conditions, with a hydrocracking catalyst comprising at least one hydrogenation metal component in combination with a crystalline, silicoaluminophosphate molecular sieve having pores defined by 12-membered rings of oxygen atoms. The preferred silicoaluminophosphate molecular sieve is SAPO-5 molecular sieve and the catalyst preferably contains both a Group VIB metal hydrogenation component, such as molybdenum or tungsten, and a Group VIII hydrogenation metal component, such as nickel or cobalt. It has been found that such a process produces gasoline boiling fractions having substantially increased research and motor octane numbers.

IPC 1-7

**C10G 47/18**; B01J 29/02

IPC 8 full level

**B01J 29/00** (2006.01); **B01J 29/85** (2006.01); **C10G 35/095** (2006.01); **C10G 47/12** (2006.01); **C10G 47/16** (2006.01)

CPC (source: EP US)

**B01J 29/85** (2013.01 - EP US); **C10G 47/16** (2013.01 - EP US)

Citation (search report)

- US 4431516 A 19840214 - BAIRD MICHAEL J [US], et al
- US 4440871 A 19840403 - LOK BRENT M [US], et al

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US5489317A; US5850708A; US6145248A; US5586408A; US6232277B1

Designated contracting state (EPC)

AT BE DE ES FR GB GR IT LU NL SE

DOCDB simple family (publication)

**US 4695368 A 19870922**; CA 1295277 C 19920204; EP 0261769 A1 19880330; JP S6386794 A 19880418

DOCDB simple family (application)

**US 89275686 A 19860731**; CA 541779 A 19870710; EP 87306255 A 19870715; JP 19250087 A 19870731